



SEQUENCE LISTING

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<120> GLYCOSYLATED ENKEPHALIN AGENTS

<130> 920214.00005

<140> 10/540,443

<141> 2005-06-22

<150> PCT/US2004/005843

<151> 2004-02-24

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<160> 35

<170> PatentIn version 3.3

<210> 1

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<212> PRT

<213> Artificial

<220>

<223> Classic motif for opioid receptor binding

<400> 1

Tyr Gly Gly Phe

1

<210> 2

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<223> Met-Enkephalin

<400> 2

Tyr Gly Gly Phe Met

1

5

<210> 3

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<223> Leu-Enkephalin

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Tyr Gly Gly Phe Leu

1 5

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<223> Dynorphin A

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Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asn Asn
1 5 10 15

Gln

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Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr
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<400> 6

Tyr Gly Gly Phe Leu Arg Lys Tyr
1 5

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<223> Beta-Neoendorphin

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Tyr Gly Gly Phe Leu Arg Lys Tyr Pro
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<220>
<223> Beta h-Endorphin

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Tyr Gly Gly Phe Met Thr Ser Glu Lys Ser Gln Thr Pro Leu Val Thr
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Leu Phe Lys Asn Ala Ile Ile Lys Asn Ala Tyr Lys Lys Gly Glu
20 25 30

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<223> Peptide E

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Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu Trp Trp Met Asp
1 5 10 15

Tyr Gln Lys Arg Tyr Gly Gly Phe Leu
20 25

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<223> Peptide F

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Gly Gly Glu Val Leu Gly Lys Arg Tyr Gly Gly Phe Met
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<223> Nociceptin

<400> 11

Phe Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asn Asn
1 5 10 15

Gln

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<223> D-amino acid

<220>
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<222> (7)..(7)
<223> contains CONH2

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Tyr Met Phe His Leu Met Asp
1 5

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<223> D-amino acid

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<223> contains CONH2

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Tyr Ala Phe Gly Tyr Pro Ser
1 5

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<223> Morphiceptin

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<223> contains CONH2

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Tyr Pro Phe Pro
1

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<223> Beta-Casomorphin

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Tyr Pro Phe Pro Gly Pro Ile
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Tyr Pro Trp Phe
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<223> Endomorphin-2

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Tyr Pro Phe Phe
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<223> Rubiscolin-6

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Tyr Pro Leu Asp Leu Phe
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<223> Motif for opioid receptor binding having a D-amino acid

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<223> D-amino acid

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Tyr Cys Gly Phe
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<223> D-amino acid

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Tyr Ala Gly Phe
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<223> D-amino acid

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<222> (6)..(6)

<223> contains (b-Glc) CONH2

<400> 23

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1 5

<210> 24

<211> 6

<212> PRT

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<223> Synthetic enkephalin

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<221> MISC_FEATURE

<222> (2)..(2)

<223> D-amino acid

<220>

<221> MOD_RES

<222> (6)..(6)

<223> contains (a-Man) CONH2

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1 5

<210> 25

<211> 6

<212> PRT

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<221> MISC_FEATURE

<222> (2)..(2)

<223> D-amino acid

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<221> MOD_RES

<222> (6)..(6)

<223> contains (b-Lactose) CONH2

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<210> 26

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<222> (6)..(6)

<223> contains (b-Glc) CONH2

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<210> 27

<211> 6

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<222> (2)..(2)

<223> D-amino acid

<220>

<221> MOD_RES

<222> (6)..(6)

<223> contains (b-Maltose) CONH2

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1 5

<210> 28

<211> 6

<212> PRT

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<223> D-amino acid

<220>
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Tyr Thr Gly Phe Leu Ser
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<223> contains (b-Xyl) CONH2

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<222> (16)..(16)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (17)..(17)
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<400> 31

Tyr Thr Gly Phe Leu Pro Asn Leu Asx Glu Lys Ala Leu Lys Ser Xaa
1 5 10 15

Leu

<210> 32
<211> 17
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<223> D-amino acid

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<221> MISC_FEATURE
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<222> (16)..(16)
<223> Xaa can be any naturally occurring amino acid

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<223> contains CONH2

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Tyr	Thr	Gly	Phe	Leu	Ala	Asn	Leu	Asx	Glu	Lys	Ala	Leu	Lys	Ser	Xaa
1				5					10					15	

Leu

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<212> PRT

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<222> (2)..(2)

<223> D-amino acid

<220>

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<222> (17)..(17)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> MOD_RES

<222> (18)..(18)

<223> contains CONH2

<400> 33

Tyr	Thr	Gly	Phe	Leu	Gly	Gly	Asn	Leu	Asx	Glu	Lys	Ala	Leu	Lys	Ser
1				5					10					15	

Xaa Leu

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<222> (2)..(2)

<223> Xaa can be any naturally occurring amino acid

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Tyr Xaa Gly Phe Leu
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<210> 35

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<212> PRT

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<223> General motif for opiod receptor binding having a D-amino acid

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<221> misc_feature

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<223> Xaa can be any naturally occurring amino acid

<400> 35

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